Remarks/Argument

This paper is submitted responsive to the office action mailed August 30, 2006. Reconsideration of the application in light of the accompanying remarks and amendments is respectfully requested.

Typing errors were discovered in claims 1, 24 and 26 during the preparation of this paper, and these errors have been corrected.

In the aforesaid office action, the Examiner rejected claims 1, 9-12 and 24-26 as obvious over a combination of US 6074771 to Cubukcu et al. (hereafter "Cubukcu") and US 6139810 to Gottzmann et al. (hereafter "Gottzmann"). Claims 2, 3, 6 and 7 were rejected as obvious over Kubukcu, Gottzmann and US 4640875 to Makiel (hereafter "Makeil"). Claim 5 was allowed and claim 8 was indicated to contain allowable subject matter.

Independent claim 1 calls for a bipolar plate between two fuel cells, wherein the bipolar plate and at least one of the fuel cells define opposed surfaces. Claim 1 further requires a continuous fiber tow in a closed loop structure forming a substantially gas impermeable seal between the opposed surfaces.

Cubukcu discloses a ceramic composite electrolyte device, and discloses components such as bipolar foil member 50 and photolithographic member 60 which are sealed to each other by metal to metal welds. The Examiner concedes that Cubukcu does not disclose the seal of claim 1, but asserts that Gottzmann teaches this subject matter.

Gottzmann does not disclose a solid oxide fuel cell stack with at least two fuel cell components and a continuous fiber tow wrapped into a closed-loop structure forming a substantially gas impermeable seal between opposed surfaces of the components. Rather, in a completely different environment, Gottzmann discloses an O-ring 50 which is between tube sheet 21, outer wall 54 of reaction tube 34, and a sleeve flange 58. None of

these structures remotely resembles the structures which define the opposed surfaces in claim 1. Further, none of these structures or teachings in Gottzmann related thereto would lead a person skilled in the art to believe that the O-ring 50 of Gottzmann could be substituted for the metal to metal weld called for in Kubukcu. The Gottzmann disclosure is a very different overall device, with an O-ring seal in a very different type of location. It is submitted that there is clearly no proper motivation to select the O-ring from Gottzmann and insert it into the device of Kubukcu in place of the welding clearly called for therein.

Independent claim 24 calls for similar subject matter and further adds a compression stop disposed between the two opposed surfaces. The Examiner states that Gottzmann teaches a compression stop extending from one of the fuel cell components to another fuel cell component and that this compression stop is frame like in shape and has a groove to hold the seal member. The Examiner refers to Figures 1-4 and column 7, line 8 to column 10, line 35, of Gottzmann.

First, it is pointed out that the Gottzmann device is not at all a fuel cell and, therefore, the Gottzmann does not have fuel cell components between which a compression stop could be located.

Second, if the Examiner considers the recess illustrated in Figure 4 of Gottzmann to meet the limitations of claim 24, it should be appreciated that this structure is completely incompatible with incorporation into Kubukcu. The members joined in Kubukcu are metal foils which are welded together. A metal foil would present difficulty to a person of skill in the art in trying to incorporate a recess such as that shown in Figure 4. A material far more rigid than the foil of Kubukcu would be needed. Further, Gottzmann positioned the O-ring between circular concentric surfaces in Figure 4, which do not

at all resemble the surfaces called for by claim 24. In short, it is submitted that there is no suggestion to combine Kubukcu with Gottzman, no teaching that indicates how a person skilled in the art should do such combining, and a clear inconsistency between the structures of Kubukcu and Gottzmann which leads to the inescapable conclusion that a person of skill in the art would not consider Gottzmann as teaching anything pertinent to the claims of the present application or the teachings of Kubukcu.

Reconsideration of the rejections of claims 1 and 24 is therefore respectfully requested.

Dependent claims 2, 3, and 6-7 and 9-12 all depend from claim 1 and are submitted to be allowable based upon this dependency and also in their own right. Dependent claims 25-26 depend from claim 24 and are submitted to be allowable based upon this dependency as well.

Claims 25 and 26 call for a frame, and for the opposed surfaces to be substantially planar with the compression stop extending from one of the substantially planar surfaces.

Niether of Kubukcu nor Gottzmann discloses the frame. Further, positioning of the compression stop between two substantially planar surfaces more clearly highlights the incompatibility of the teachings of Kubukcu and Gottzmann, and is yet another feature which must be totally ignored from Gottzmann in oreder to arrive at the subject matter of claim 26.

Based upon the foregoing, it is submitted that all claims pending herein are allowable over the art of record, and early and favorable action is respectfully solicited.

An earnest and thorough effort has been made to respond to all issues raised in the aforesaid office action and place the claims in condition for allowance over all art of record. If, upon considering this response, the Examiner believes that issues remain which can be resolved by telephone interview, the

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Examiner is invited to contact the undersigned to discuss same.

It is believed that no additional fee is due in connection with this paper. If any fee is due, please charge same to deposit account no. 02-0184.

Respectfully submitted,

S. Warrier et al.

Bv

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I, George A. Coury, hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: "Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313" on November 30, 2006